This question paper contains **2** printed pages]

SF—38—2022

FACULTY OF COMPUTER STUDIES

B.Sc. (Second Year) (Third Semester) EXAMINATION

MAY/JUNE, 2022

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper (CS-302)

(Computer Network)

(Monday, 4-7-2022)　　　　　　　　　　　**Time : 2.00 p.m. to 5.45 p.m.**

Time— 3.45 *Hours*　　　　　　　　　　　　　　*Maximum Marks*—75

N.B. :— (i) *All* questions are compulsory.

　　　　(ii) Figures to the right indicate full marks.

　　　　(iii) Assume suitable data, if necessary.

1. Attempt any five of the following : 　　　　　　　　　　15

　(a) What is IP address ?

　(b) Explain HTTP in detail.

　(c) What is connection oriented services ?

　(d) Explain 10BaseT.

　(e) Explain NIC cards.

　(f) Explain message switching.

　(g) Explain any network device.

2. Attempt any *three* of the following : 　　　　　　　　15

　(a) Explain applications of computer network.

　(b) Explain service primitives.

P.T.O.

(*c*) Explain Hub and Switch.

(*d*) Explain FDDI in detail.

3. Attempt any *three* of the following : 15

(*a*) Explain OSI reference model.

(*b*) Explain LAN network.

(*c*) Explain circuit switching.

(*d*) Explain Ring topology.

4. Attempt any *three* of the following : 15

(*a*) Explain SMTP in detail.

(*b*) Explain fibre optics in detail.

(*c*) Explain ISP.

(*d*) Explain protocol stack design issues of the layers.

5. Write short notes on any *three* : 15

(*a*) Digital signal

(*b*) Ethernet

(*c*) Design issues for Layers

(*d*) Parallel Transmission mode

(*e*) Internet verses Intranet.